(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 29 September 2005 (29.09.2005)

PCT

(10) International Publication Number WO 2005/089442 A2

(51) International Patent Classification:

Not classified

(21) International Application Number:

PCT/US2005/008946

(22) International Filing Date: 18 March 2005 (18.03.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/554,765

19 March 2004 (19.03.2004)

- (71) Applicant (for all designated States except US): WYETH [US/US]; Five Giralda Farms, Madison, NJ 07940 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): FOLLETTIES, Maximillian [US/US]; 12 Greensbrook Way, Belmont, MA 02478 (US). DONALDSON, Debra, D. [US/US]; 108 Blakely Road, Medford, MA 02155 (US).

- (74) Agents: SUPERKO, Colleen et al.; Wilmer Cutler Pickering Hale and Dorr LLP, 60 State Street, Boston, MA 02109 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR. GB. GR. HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: INHIBITORS OF GOB-4 PROTEIN AS ASTHMA THERAPEUTICS

1 ccgcatccta gccgccgact cacacaaggc aggtgggtga ggaaatccag agttgccatg 61 gagaaaattc cagtgtcagc attcttgctc cttgtggccc tctcctacac tctggccaga 121 gataccacag tcaaacctgg agccaaaaag gacacaaagg actctcgacc caaactgccc 181 cagacetet ccagaggttg gggtgaccaa etcatetgga etcagacata tgaagaagct 241 ctatataaat ccaagacaag caacaaaccc ttgatgatta ttcatcactt ggatgagtgc 301 ccacacagtc aagctttaaa gaaagtgttt gctgaaaata aagaaatcca gaaattggca 361 gagcagtttg tectecteaa tetggtttat gaaacaactg acaaacacet tteteetgat 421 ggccagtatg tccccaggat tatgtttgtt gacccatctc tgacagttag agccgatatc 481 actggaagat attcaaatcg tototatget tacgaacctg cagatacage tetgttgctt 541 gacaacatga agaaagctct caagttgctg aagactgaat tgtaaagaaa aaaaatctcc 601 aagccettet gtetgteagg cettgagaet tgaaaccaga agaagtgtga gaagaetgge ttaatgttac aacaactatt 661 tagtgtggaa gcatagtgaa cacactgatt aggttatggt 721 ttttaagaaa aacaagtitt agaaatttgg tttcaagtgt acatgtgtga aaacaatatt 841 ctgttttctc caacttggtc tttcacagtg gttcgtttac caaataggat taaacacaca 901 caaaatgctc aaggaaggga caagacaaaa ccaaaactag ttcaaatgat gaagaccaaa 961 gaccaagtta tcatctcacc acaccacagg ttctcactag atgactgtaa gtagacacga 1021 gcttaatcaa cagaagtatc aagccatgtg ctttagcata aaagaatatt tagaaaaaca 1081 toccaagaaa atcacatcac tacctagagt caactctggc caggaactct aaggtacaca 1141 ctttcattta gtaattaaat tttagtcaga ttttgcccaa cctaatgctc tcaqqqaaaq 1201 cctctggcaa gtagctttct ccttcagagg tctaatttag tagaaaggtc atccaaagaa 1261 catctgcact cctgaacaca ccctgaagaa atcctgggaa ttgaccttgt aatcgatttg 1321 tctgtcaagg tcctaaagta ctggagtgaa ataaattcag ccaacatgtg actaattgga 1381 agaagagcaa agggtggtga cgtgttgatg aggcagatgg agatcagagg ttactagggt 1441 ttaggaaacg tgaaaggctg tggcatcagg gtaggggagc attctgccta acagaaatta cactctatac ttaatctcac attcattaat atatggaatt 1501 gaattgtgtg ttaatgtctt 1561 Cototactgo coagococto otgatttott tggcccotgg actatggtgo tgtatataat 1621 gctttgcagt atctgttgct tgtcttgatt aacttttttg gataaaacct tttttgaaca 1681 gaaaaaaaaa aaaaaaaaaa a

(57) Abstract: Methods of screening for agents for treating asthma are provided. The methods involve screening for agents that decrease the production or activity of a Gob-4 protein that has been discovered herein to play a role in producing the symptoms and pathological complications involved in asthma. Methods of treating asthma, as well as screening for and treating with inhibitors of a Gob-4 protein are also provided.

WO 2005/089442 A2



Published:

 without international search report and to be republished upon receipt of that report For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.